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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/510,334	02/22/2000	Toshikazu Ohshima	2355.11105	1732
5514	7590 12/02/2003		EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			WHITE, CARMEN D	
NEW YORK,			ART UNIT	PAPER NUMBER
ŕ			3714	
			DATE MAILED: 12/02/2003	25

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. O9/510,334 Examiner Carmen D. White The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after Stx (6) MONTHS from the malting date of this communication It is to period for reply is specified above is less than thirty (30) days, a reply within the statutory princinum of thirty (30) days will be considered timely It IN operator for reply is specified above the maximum statutory period will apply and will expire SIX (6) MONTHS from the malting date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133) Any reply received by the Office later than three months after the mailling date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on September 22, 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,3,5-11,13,16,18 and 29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1,3,5-11,13,16,18 and 29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to.	
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Application Papers 9) The specification is objected to by the Examiner. and approved by the Drafts person.	
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 22 February 2000 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.	
Priority under 35 U.S.C. §§ 119 and 120	
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:	
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 	
13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.	
 a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 	
Attachment(s)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	

Application/Control Number: 09/510,334

Art Unit: 3714

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5-11, 13, 16, 18 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Latypov* (5,846,134) in view of *Ahdoot* (5,913,727), further in view of *Ullman* et al (5,488,362), further in view of *Kramer* (5,930,741).

Regarding claims 1, 3, 5-11, 13, 16, 18 and 29, Latypov, Ahdoot and Ullman teach all the limitations of the instant claims as discussed in the prior office actions, particularly the last office action (paper #16, 6/19/03), which are incorporated herein by reference. Regarding the newly added claim features a first sensor attached to a first portion of a body of a user, wherein the first portion is a head and wherein said first sensor detects a position and a posture of the head and a generation unit arranged to generate action information on the basis of a transition of the estimated relative position and the position and posture of the first portion. While Ahdoot and Latypov teach head sensors, the references lack the detailed explicit disclosure of the newly claimed feature. In an analogous user interface apparatus that operates in a "virtual" type environment, Kramer (previously cited as pertinent prior art) teaches the newly added claim features (Fig. 2; col. 2, lines 66-67; col. 4, lines 27-40; col. 10, lines 28-34; col. 15, lines 16-18 and lines 38-40). It would have been obvious to a person of

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ordinary skill in the art at the time of the invention to incorporate these head positioning features of Kramer into Latypov, Ahdoot and Ullman to provide more accurate position determination. This would make the user interface truer to actual conditions; thereby making it more realistic.

Examiner's Response to Applicant's Remarks

Applicant argues that the prior art of Latypov, Ahdoot and Ullman does not teach the newly added claim features. The examiner cited Kramer, above, which was cited as pertinent prior art in the previous office action to teach the features. Kramer teaches the use of a plurality of sensors attached to a user to determine position and "posture" (which has been interpreted as an analogous term for position) of various body parts, including the head and eyes. The sensors of Kramer are highly sophisticated and detect the most minute movements of the user for accuracy. Therefore, the examiner maintains that the prior art of record teaches the instant claimed invention.

Cońclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

USPTO Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carmen D. White whose telephone number is 703-308-5275. The examiner can normally be reached on Monday through Friday, 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Hughes can be reached on 703-308-1806. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1078.

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700